Title (en)

Method and device for activating and deactivating geopositioning devices in moving vehicles

Title (de)

Verfahren und Vorrichtung zur Aktivierung und Deaktivierung von Geopositionierungsvorrichtungen in sich bewegenden Fahrzeugen

Title (fr)

Procédé et dispositif permettant d'activer et de désactiver des dispositifs de géolocalisation des véhicules en mouvement

Publication

EP 3051315 A1 20160803 (EN)

Application

EP 15382021 A 20150129

Priority

EP 15382021 A 20150129

Abstract (en)

A mobile user terminal (1) and method for activating/deactivating geopositioning devices (13) in moving vehicles, wherein the detection of the geopositioning device (13) located in a moving vehicle is based on data from low-energy consumption sensors (11) provided by the mobile user terminal (1). If the mobile user terminal (1) is located in the moving vehicle, at least one probe pattern related to a situation of the moving vehicle is identified and based on the identified probe pattern and data from low-energy consumption sensors (11), it is verified either that the situation corresponds to the mobile user terminal (1) riding in the moving vehicle (12), and then the geopositioning device (13) is activated (18), or that the mobile user terminal (1) is stopped in the moving vehicle (15), and then the geopositioning device (13) is deactivated (16). The steps of detecting and identifying the moving vehicle situation, performed by the mobile user terminal (1), use short-time and long-time probes.

IPC 8 full level

G01S 19/34 (2010.01)

CPC (source: BR EP US)

G01S 19/34 (2013.01 - BR EP US)

Citation (applicant)

- US 2013085861 A1 20130404 - DUNLAP SCOTT [US]
- US 2013245986 A1 20130919 - GROKOP LEONARD HENRY [US], et al
- KYU-HAN KIM ET AL.: "Proceedings of the 8th international conference on Mobile systems, applications and services", 2010, ACM, article "Improving energy efficiency of location sensing on smartphones"
- MIKKEL BAUN KJAERGAARD ET AL.: "Proceedings of the 7th international conference on Mobile systems, applications and services", 2009, ACM, article "Entracked: energy-efficient robust position tracking for mobile devices"
- CHUANG-WEN YOU ET AL.: "Impact of sensor-enhanced mobility prediction on the design of energy-efficient localization", AD HOC NETWORKS, vol. 6.8, 2008, pages 1221 - 1237, XP024339016, DOI: doi:10.1016/j.adhoc.2007.11.007

Citation (search report)

- [XI] US 2012129544 A1 20120524 - HODIS MORDECHAI [US], et al
- [X] US 2012289244 A1 20121115 - GOYAL AMIT [US]
- [XD] US 2013245986 A1 20130919 - GROKOP LEONARD HENRY [US], et al
- [A] US 2013324196 A1 20131205 - WANG CHENYU [US], et al
- [A] US 2013102323 A1 20130425 - CZOMPO JOSEPH [US]
- [A] US 2013314278 A1 20131128 - LIM HYEBONG [KR], et al

Cited by

EP3276379A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3051315 A1 20160803; BR 102016002138 A2 20180515; US 2016223682 A1 20160804

DOCDB simple family (application)

EP 15382021 A 20150129; BR 102016002138 A 20160129; US 201615009318 A 20160128